

EXT ^{liv} 2/12/32

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

SAT 22 FEB. 1921

S. Lievenham
MONKSVILLE

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey Southampton
Date of Survey while Building
Name of Surveyor John A. Lawson

Ship's Name <u>Messrs Thornycroft</u> <u>Yans No: 998</u>	Port of Registry and Nationality. <u>British</u> <u>Southampton</u>	Official Number. <u>145345</u>	Gross Tonnage. <u>500</u> <u>514.12</u>	Date of Build. <u>1921</u>	Particulars of Classification. <u>+100A.1</u> <u>Contemplates</u>
-----------------------------------------------------------------	---------------------------------------------------------------------------	-----------------------------------	-----------------------------------------------	-------------------------------	----------------------------------------------------------------------

Registered dimensions from Ship's Register.	LENGTH. <u>155.7</u>	BREADTH. <u>26.2</u>	DEPTH. <u>11.45</u>	UNDER DECK TONNAGE. <u>374.4</u>
Length on LOADLINE.	<u>154.83</u>	Frame Depth ^{47/4} <u>5</u> Rule <u>3</u> <u>1 3/4 x 2 = .29</u>	Ceiling <u>fitas</u> Sheer <u>+ .71</u> <u>To Floors</u> <u>11.71</u>	Peak <u>Inclu.</u> Tanks <u>ES+4.86</u>
CORRECTED DIMENSIONS.	<u>154.83</u>	<u>25.91</u>	<u>12.42</u>	<u>379.26</u> <u>352.26</u>

Moulded Depth as measured..... 12'-6"

Addition for Keel below base line for draught record..... 1 1/2 inches.

NOTE.— If the depth is measured when vessel is afloat, the details of measurement should be reported.

12.6
13.0
1.4
11.8
11.71

CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	<u>154.83</u>
Length in Table	<u>150.00</u>
Difference	<u>4.83</u>
Correction for 10ft., Table A.	<u>.9</u> Table C. <u>.5</u>
× Difference divided by 10	<u>.434</u> (if required.)
If 1/10ths length covered divide by 2	<u>.217</u>
	<u>+ 1/4"</u>

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered

Thickness of usual wood deck, less stringer 3 1/2 — 3.6 2 3/4 3.14 - 3/4

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 26.0

Round of Beam..... 6 1/2

Normal round..... 6 1/2

Difference

Proportion of Deck uncovered (Para. 19)

NOTE.— The round of beam should be reported on the full breadth of vessel at the gunwale.

Freeboard, Table A	<u>1" 10 1/2</u>
Correction for Sheer	<u>- 5 3/4</u>
Correction for Length	<u>1.4 3/4</u>
Allowance for Deck Erections	<u>+ 1/4</u>
Correction for Round of Beam.....	<u>1.5</u>
Correction for fall in Sheer (if any).....	<u>- 8</u>
Correction for Iron Deck (if required)	<u>0.9</u>
Additions for non-compliance with provisions of Para. 11 (d) and (e) †	<u>- 3/4</u>
Other Corrections (if any)	<u>0.5 3/4</u>
	<u>- 3/4</u>
	<u>0.5 3/4</u>
Winter Freeboard	<u>3' 11 3/4</u>
Summer Freeboard	<u>1 3/4</u> <u>3.10</u>
Indian Summer Freeboard	<u>✓</u>
N.A. Winter Freeboard	<u>✓</u>

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the R.Q.D. iron deck with side. + 1"

Winter Freeboard from deck line	<u>4' 0 3/4</u>
Summer " " "	<u>3.11</u>
Indian Summer " " "	<u>✓</u>
N.A. Winter " " "	<u>✓</u>
R.Q.D. " " "	<u>3' 11"</u>

Co-efficient of fineness..... .461

Any modification necessary [Para. 4 (a) to (e)]* ✓

Co-efficient as corrected46

Sheer { Stem..... 69 } 92 ÷ 2 = 46 ...Mean 50.0
at { Sternpost ... 23 } 25.48
34.53
36 = 71

Sheer at 1/2 of the length from { Stem 43.75 } 55.0
Sternpost 1.25 } 54.0 ÷ 2 = 27.5 ...Mean 50.0
55.0
49.50

Gradual mean Sheer 48.0

Standard mean Sheer [Table, Para. 18] 25.48 Correction - 5 3/4

Difference..... 22.52 ÷ 4 = 5.63

§ If limited as Para. 18 (f)

Print sheer 16 1/2" aft. of 20 = 12 1/2" MLS.

Rise in Sheer { At front of bridge house..... } 7.25
from amidships { At after end of forecastle

Fall in Sheer { Para. 18 (d) } 1.5 ÷ 2 = .75

Length uncovered all covered by R.Q.D. Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C.....	<u>0' 4 1/2</u>
Correction for Length, if required (Para. 12, 13, and 14)	<u>✓</u>
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14)	<u>1.4 3/4</u>
Difference	<u>1.0 1/4</u>
Percentage as below.....	<u>66.4%</u>
	<u>- 8.13</u>

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) + 1/4"

Allowance for Deck Erections - 8"

	Length.	Length allowed.	Height.
Forecastle.....	<u>24.72</u>	<u>23.08</u> <u>22.93</u>	<u>7.25</u>
Bridge House	<u>10.75</u>	<u>10.75</u>	<u>7.25</u>
† Raised Qr. Dk.....	<u>86.46</u>	<u>86.46</u>	<u>3.5</u>
Poop.....			<u>3.5</u>
Total	<u>121.93</u>	<u>120.29</u>	<u>776</u>
Length of Ship	<u>154.83</u>		
Corresponding percentage (Para. 11, 12, 13, or 14) }	<u>66.4%</u>		

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Iron) Deck :—

Fresh Water Line above centre of Disc

Indian Summer Line " " "

Winter Line below " " "

Winter North Atlantic Line " " "

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MARKING FORM

28 AUG 1921 RECEIVED

Do all the Frames extend to the top height in the Poop? Raised Quarter Deck? *yes* Bridge House? *yes* Forecastle? *yes*
 To what height do the Reverse Frames extend? *across floors*
 Has the ~~Poop~~ Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *yes*
 Give particulars of the means for closing the openings in Bulkhead *no openings*
 Is the ~~Poop~~ Raised Quarter Deck connected with the Bridge House? *yes* Has the Bridge House an efficient Bulkhead at the fore end? *yes*
 Give particulars of the means for closing the openings in Bulkhead *no openings*
 What is the thickness of the Bridge Front plating? *.24* and Coaming plate? *.34*
 Give scantlings and spacing of the Stiffeners *5 x 3 x .42 B.A. spaced 30' apart*
 Are bracket plates fitted at each end of the Stiffeners? *yes* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *yes*
 Has the Bridge House an efficient ~~Iron~~ ^{Steel} Bulkhead at the after end? *yes*
 How are the openings closed? *no openings*
 Is the Forecastle at least as high as the main or top-gallant rail? *yes* Has the Forecastle an efficient ~~Iron or Wood~~ ^{Steel} Bulk'd. at after end? *yes*
 Are the Engine and Boiler openings covered by a ~~Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse?~~ *yes*
 If the openings are not so protected Are the exposed parts of the Casings efficiently constructed? *yes*
 Give thickness of plating; scantlings and spacing of Stiffeners *.30 + .24 2 1/2 x 2 1/2 x .24 spaced 30'*
 What is the height of the exposed Casings? *1.25* Are suitable means provided for closing all openings in them in bad weather? *yes*
 Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below:— *yes*

Position and Size.	N ^o 1. For 23.3 x 15.0		N ^o 2. 21.6 x 15.0		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
	Ship.	Rule.	Ship.	Rule.						
COAMING	Height above top of DECK	30	24	24						
	Thickness	Sides.....	.44	.44	.44					
		Ends.....	.44	.44	.44					
SHIFTING BEAMS OR WEB PLATES	Number.....	4	4	4						
	Section and Scantlings.....	12 x 6 x 44 lbs R.S.J. To both Hatchways. alternate webs have angles on top.								
* FORE AND AFTERS.	Number.....									
	Section and Scantlings.....	✓	✓	✓	✓					
	Material.....									
HATCHES	Thickness.....	2 1/2"	2 1/2"	2 1/2"	2 1/2"					
	Remarks.....	W.P.	W.P.	W.P.	W.P.					

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

(If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

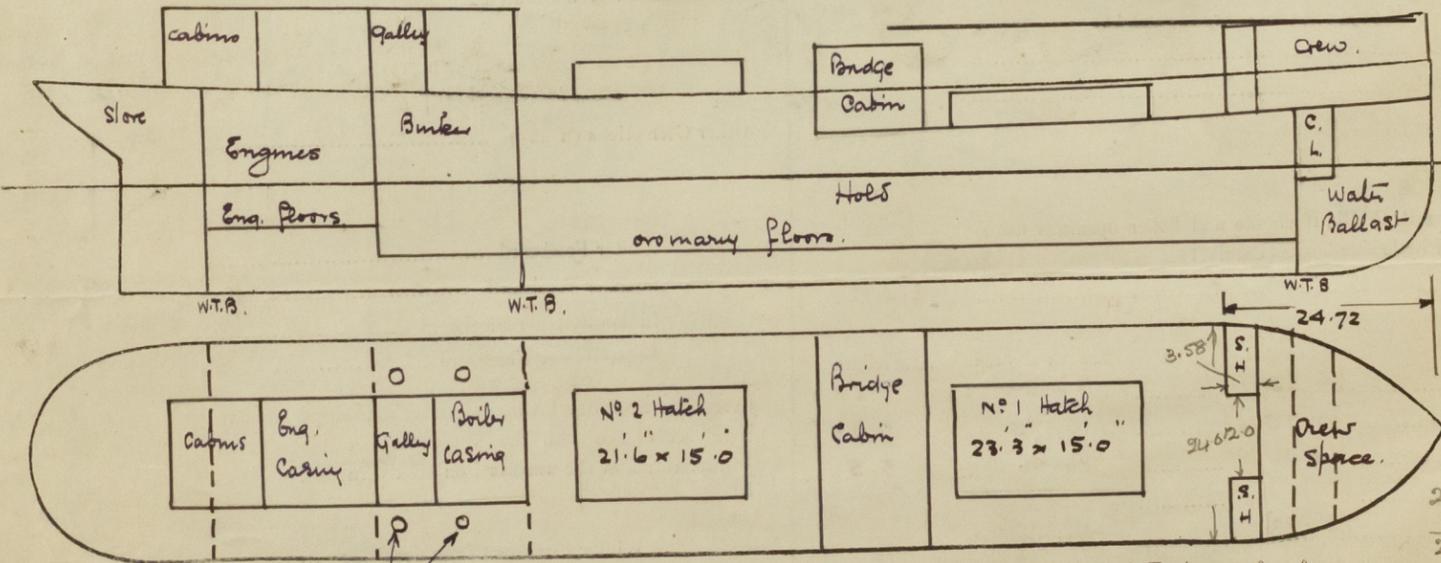
The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

What is the thickness of the Bridge Sheerstrake? *.25* Strake between Main and Bridge Sheerstrakes? *.50*

154.83
121.93
32.90

Delete the words { The Crew are, ~~are not~~, berthed in the bridge house. *Gangway well fitted.*
 that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, ~~are not~~ satisfactory.

Length of Bulwarks in well = *32.59*
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = *9.759* Sq. ft.
 Ft. Tenths. Ft. Tenths. No. } Freeing Ports (each side of vessel) = *10.41* Sq. ft.
 3.25 x 1.16 x 3 }
 Total deficiency or excess = *662* Sq. ft.



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

Displacement *Tons per Inch Scale* herewith.

State any special features in the construction of the Vessel

The above vessel has been built in accordance with the approved plans herewith for reference.

Builders. Owners *Messrs J. J. Thornycroft & Co. Ltd.*

Address *Southampton.*

Fee £ 4 : 0 : 0 Received by me